



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Toyoji GUSHIMA et al.

Serial No. 09/832,938

: Attn: APPLICATION BRANCH

Filed April 12, 2001

: Attorney Docket No. 2001-0427A

OPTICAL INFORMATION RECORDING APPARATUS FOR STABLE RECORDING

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents,
Washington, DC 20231

Sir:

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Kindly amend the above-identified U.S. reference patent application;

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 2, line 9, with the following rewritten paragraph:

In the PVM technique, it is necessary to form a record mark without distortion, that is, form the leading and trailing ends of the record mark in the same quality because the width of record mark has information. Especially, when a long mark is formed in a phase-change-type optical disk, the width in the radial direction of a record mark increases towards the latter-half portion due to the thermal storage effect of a recording film, that is, the record mark is distorted like a tear drop. In order to solve the problems, a recording method is proposed for forming one record mark by applying a plurality of short pulse strings (e.g. Japanese patent laid-open Publication No. 185628/1991).